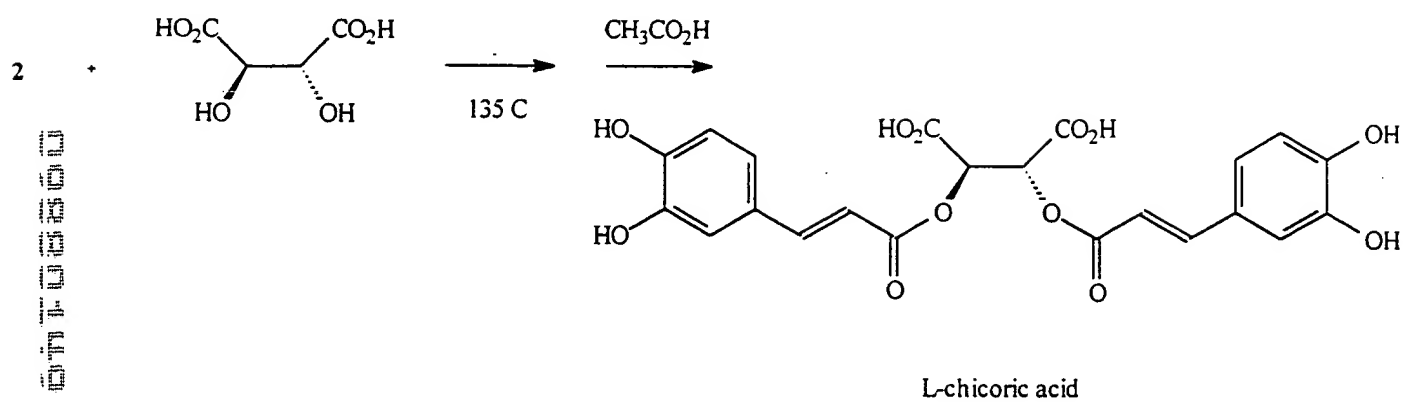
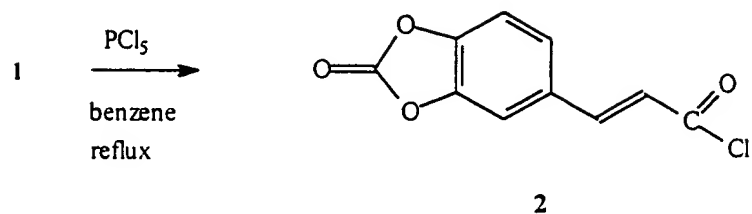
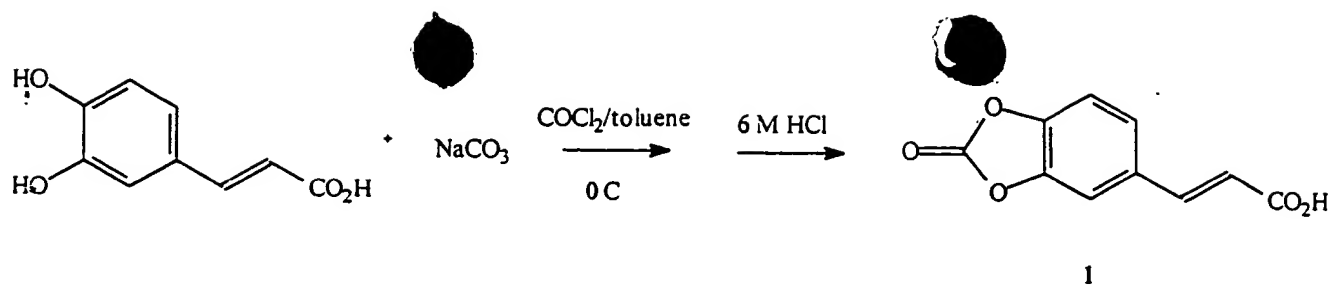


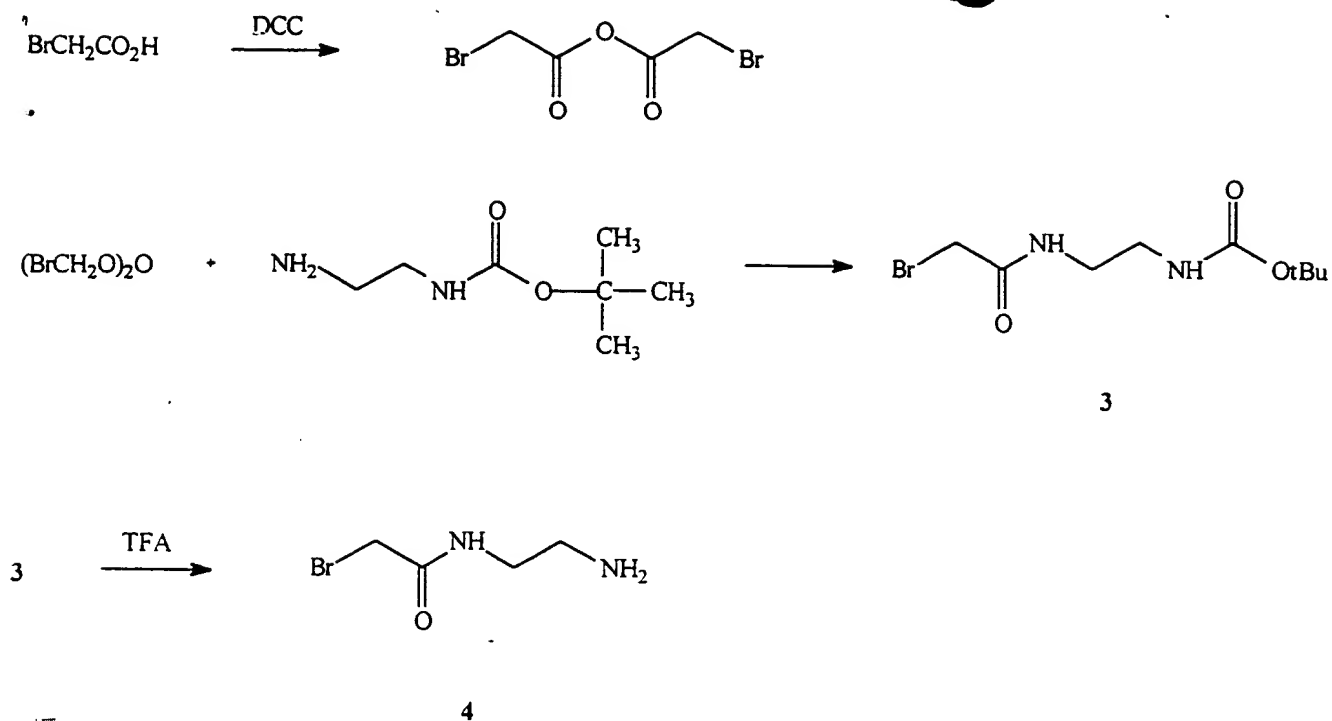
The diagram illustrates the Ubiquitination System. It features a large, irregular shape representing the cell or organelle. Inside, a smaller, elongated, textured structure is labeled "Ubiquitination System". To the right of this system, a small "Ub" (Ubiquitin) molecule is shown with a curved arrow pointing towards the "Ubiquitination Site" on the "Target Protein". The "Target Protein" is a large, irregular shape at the bottom. A "Ubiquitination Site" is indicated on the "Target Protein". A "Target Protein Recognition Element" is shown on the left, with a dashed line pointing to the "Ubiquitination System". Labels include: "Ubiquitination Recognition Site", "Ubiquitination Recognition Element", "Ubiquitination System", "Ub", "Ubiquitin", "Ubiquitination Site", "Target Protein", and "Target Protein Recognition Element".

fig 1



Scheme 1 Synthesis of L-chicoric acid

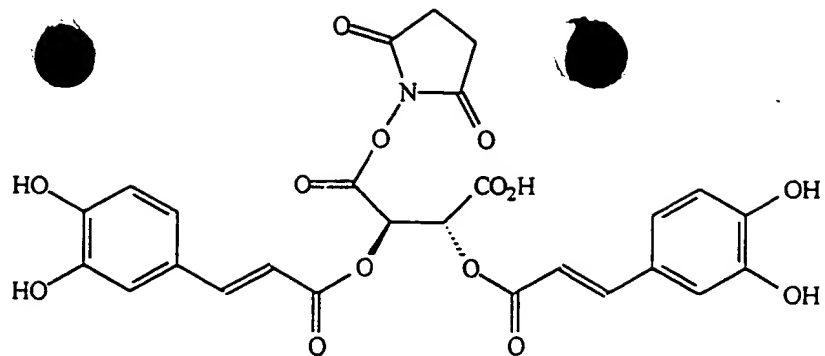
fig 2



Scheme 2 Synthesis of N-bromoacetyl ethylenediamine

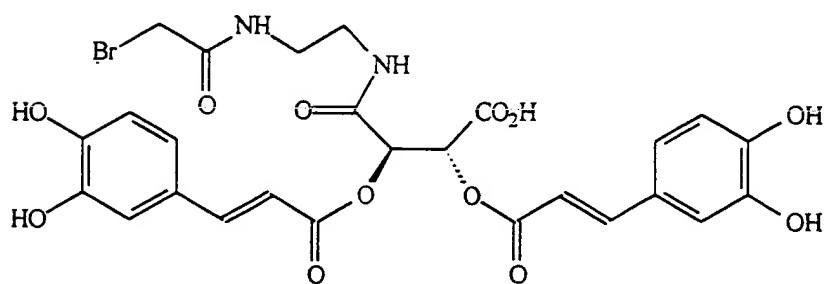
L-chicoric acid

EDC, NHS



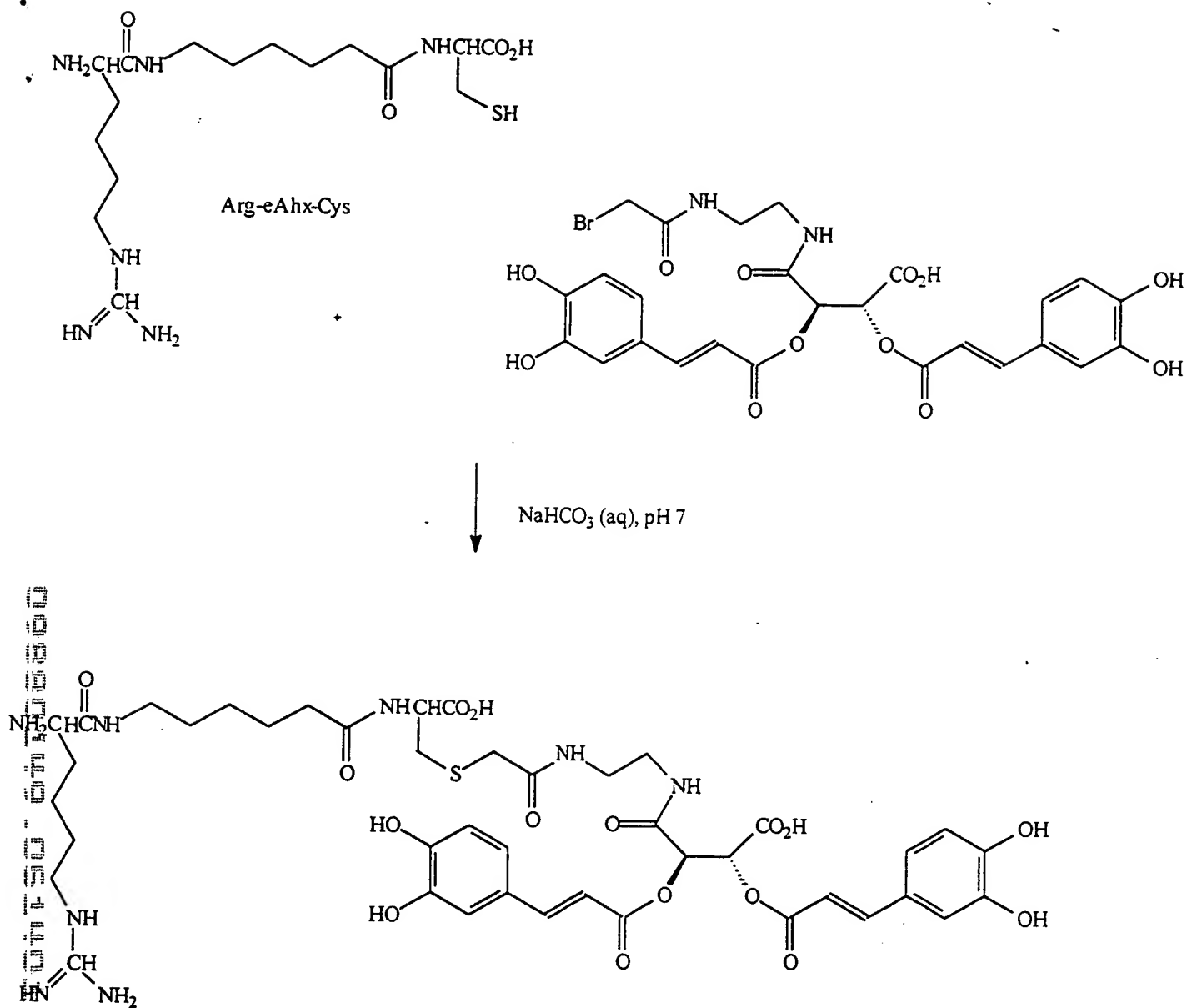
5

DIEA



6

Scheme 3 Synthesis of bromoacetylated derivative of L-chicoric acid



Scheme 4 Conjugation of recognition/linker to bromoacetylated L-chicoric acid

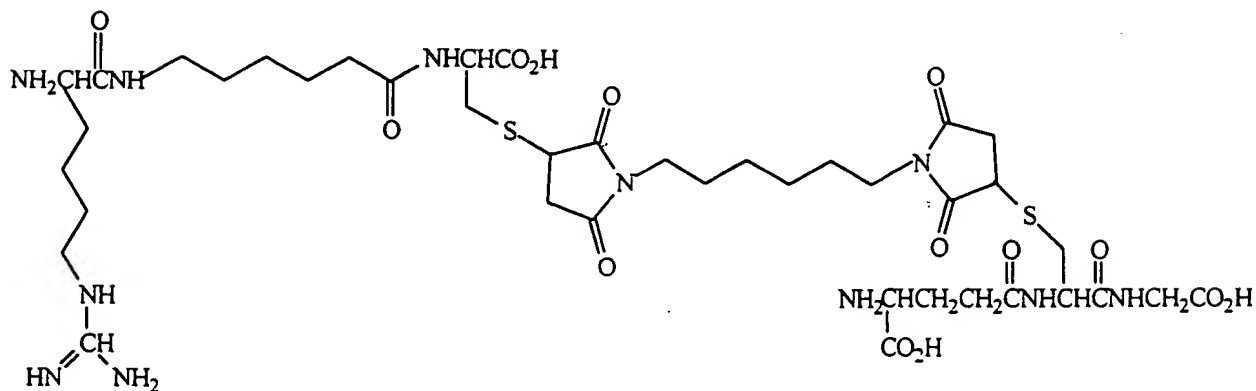
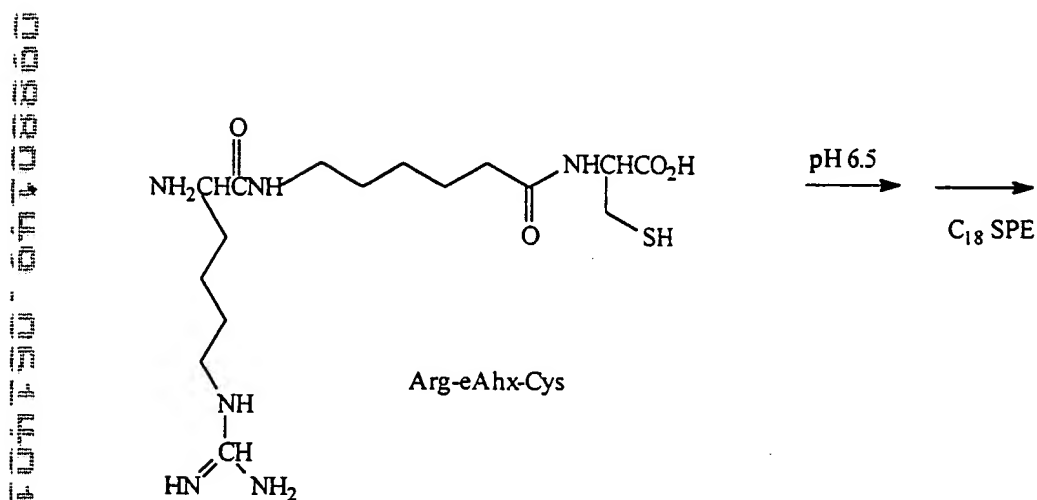
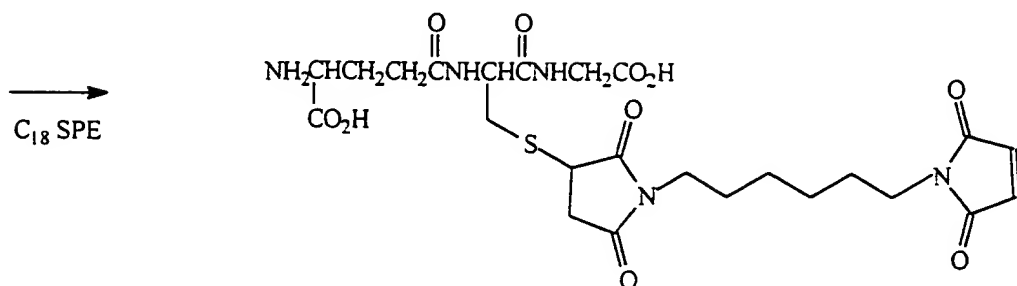
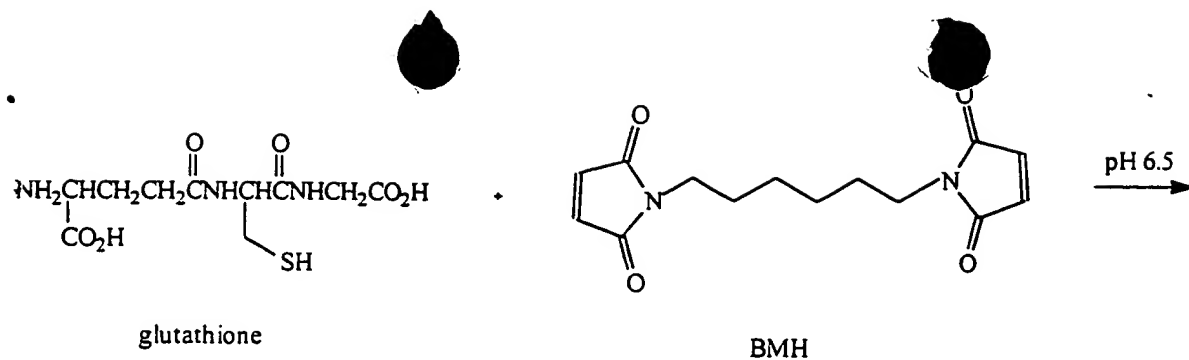


fig 6

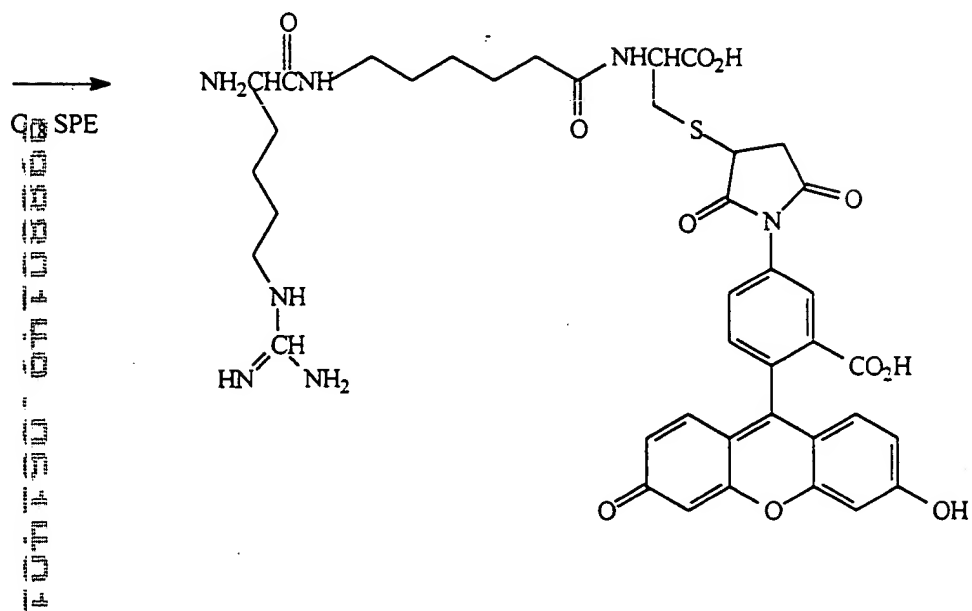
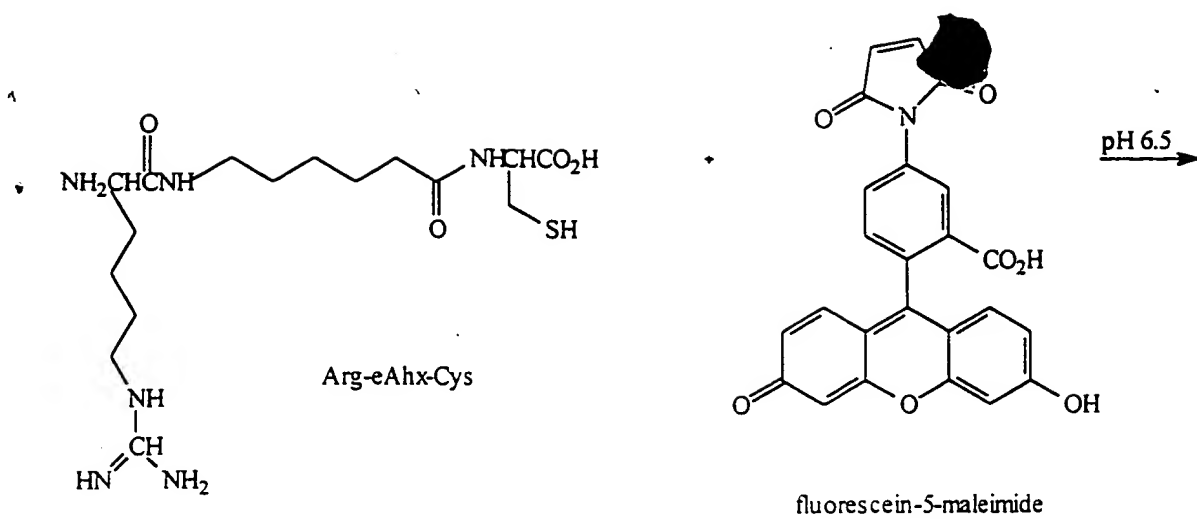


fig 7